



OIPE

RAW SEQUENCE LISTING

DATE: 09/29/2003

PATENT APPLICATION: US/10/658,745

TIME: 15:05:10

Input Set : N:\Crf3\RULE60\10658745.txt Output Set: N:\CRF4\09292003\J658745.raw

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3 <110> APPLICANT: Biogen, Inc.
        Burkly, Linda
        Wang, Li Chun
 7 <120> TITLE OF INVENTION: METHODS OF MODULATING LIPID METABOLISM AND STORAGE
9 <130> FILE REFERENCE: A069PCT
11 <140> CURRENT APPLICATION NUMBER: 10/658,745
12 <141> CURRENT FILING DATE: 2003-09-08
15 <150> PRIOR APPLICATION NUMBER: 09/704,917
16 <151> PRIOR FILING DATE: 2000-11-02
18 <150> PRIOR APPLICATION NUMBER: PCT/US00/05662
19 <151> PRIOR FILING DATE: 2000-03-03
22 <150> PRIOR APPLICATION NUMBER: 60/122,640
23 <151> PRIOR FILING DATE: 1999-03-03
25 <150> PRIOR APPLICATION NUMBER: 60/124,446
26 <151> PRIOR FILING DATE: 1999-03-15
28 <160> NUMBER OF SEO ID NOS: 22
30 <170> SOFTWARE: PatentIn Ver. 2.1
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34 <212> TYPE: DNA
35 <213> ORGANISM: Gallus sp.
37 <220> FEATURE:
38 <221> NAME/KEY: CDS
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46 tgc gct ctt tta gtc tcc tct ggg ctg act tgt gga cca ggc agg ggc
47 Cys Ala Leu Leu Val Ser Ser Gly Leu Thr Cys Gly Pro Gly Arg Gly
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50 att gga aaa agg agg cac ccc aaa aag ctg acc ccg tta gcc tat aag
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51 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys
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           35
                                                                      192
54 cag ttt att ccc aat gtg gca gag aag acc cta ggg gcc agt gga aga
55 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg
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58 tat gaa ggg aag atc aca aga aac tcc gag aga ttt aaa gaa cta acc
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59 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr
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60 65
                                                                      288
62 cca aat tac aac cct gac att att.ttt aag gat gaa gag aac acg gga
63 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly
64
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		~~~	2+~	ata	~~~	150	at a	~~~	~+~	~~~	155					160	r.00
83	Tur	Glv	Mo+	ctg Leu	712	Ara	LOU	712	y.c	Clu	ycc yla	ggc	Dho	gac	Tgg	gtc	528
84	тут	оту		пец	165	Arg	neu	Ата	vaı	170	ніа	сту	Pne	ASP	175	vaı	
	tac	tac	αaα	tcc		aca	cac	atc	Cac	-	tcc	ata	222	~~3		226	576
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88	- , -	- 1 -	014	180	шуо	711a	11113	116	185	Cys	Ser	vaı	шуз	190		ASII	
	tca	ata	σca	gcg	aaa	tica	gga	aac		ttc	cct	aac	tca			ata	624
				Ala													Q2 4
92			195		-1-		1	200	- 1 -			0-1	205			· u	
94	cac	ctg	gag	cat	gga	qqc	acc		ctq	ata	aaσ	σac		aσc	cct	aaa	672
95	His	Leu	Glu	His	Ğĺy	Ğĺy	Thr	Lys	Leu	Val	Lys	Āsp	Leu	Ser	Pro	Glv	•
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		Let	ı Thr	Phe			Arg	Met	Asp	Ser	Ser	Arg	l Lys	Leu	ı Phe	Tyr	
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		. TTE	GIU			Gln	Pro	Arg			Leu	Leu	ı Leu			Ala	
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111	cac	tou	Ctc	י דננ	gtg	gcc	CCC	cag	cac	aac	cag	tcg	gag	gcc	aca	ggg	864
112		neu	275		val	Ата	Pro			ASD	GIN	Ser			Thr	Gly	
		200			C 2 C	aca	. ata	280		200	220	~+~	285		~~~		012
115	Ser	Thr	Sor	. 990 . 610	. cay	y cy	Tou	Dho	712	ago	adC Non	glg	aag	CCT	ggc	caa Gln	912
116		290		СТУ	GIII	лта	295	rne	нта	Ser	ASII	300	_	PIO	о сту	GIN	
				ata	cta	aac		aac	aaa	Can	car					tct	960
119	Ara	Val	Tvr	Val	Len	Glv	Glu	Glv	- 61 v	Gln	Gln	Len	T.A.	Dro	ycy Als	Ser	900
120	305		- 1 -	• • • •	200	310		<u> </u>	OLy	OIII	315		шеи		MIG	320	
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123	Val	His	Ser	Val	Ser	Leu	Ara	Glu	Glu	Ala	Ser	Glv	Ala	Tur	Δla	Pro	1000
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136		370					375					380					
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	Leu																
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	ccg	cta	aac	atα		αċa	cca	acc	age								1277
	Pro	_		_		_	_	_	_	-9							
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	Trp																
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	~+ ~		~~~	~~+	~~+	~~~			~~~	~+ ~	<b>~</b> + ~		200	000	at a	at a	720
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						_	_		_	_		Thr					
226	OIU	TILL	Olu	260	110	110	1119	цуз	265	нси	шси	1111	110	270	1110	шо u	
						~~~				~~+		~~+	~~~		~~~	000	864
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296	+	a+ a	~~~	100	+ a+	~+ ~	2 ± ~	220	105	+~~	cat	~~+	a+ a		a+ a	000	384
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324		210				_	215	-		•		220				-	

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003 TIME: 15:05:11

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 1387,1388,1389

Seq#:6; Xaa Pos. 463 Seq#:15; Xaa Pos. 463

Seq#:21; Xaa Pos. 7,9,44,85,93,98,112,132,137,139,181,183,185,186,189,191

Seq#:21; Xaa Pos. 196,200,206,207,209,211,212,216,217,219

Seq#:22; Xaa Pos. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,40,41,44,45,46,48

Seq#:22; Xaa Pos. 53,54,71,79,83,84,85,87,95,100,107,114,115,116,125,134

Seq#:22; Xaa Pos. 135,139,141,157,158,160,162,166,167

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003 TIME: 15:05:11

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

#### Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:6; N Pos. 1387,1388,1389

Seq#:6; Xaa Pos. 463

Seq#:15; Xaa Pos. 463

Seq#:21; Xaa Pos. 7,9,44,85,93,98,112,132,137,139,181,183,185,186,189,191

Seq#:21; Xaa Pos. 196,200,206,207,209,211,212,216,217,219

Seq#:22; Xaa Pos. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,40,41,44,45,46,48

Seq#:22; Xaa Pos. 53,54,71,79,83,84,85,87,95,100,107,114,115,116,125,134

Seq#:22; Xaa Pos. 135,139,141,157,158,160,162,166,167

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/658,745

DATE: 09/29/2003 TIME: 15:05:11

Input Set : N:\Crf3\RULE60\10658745.txt
Output Set: N:\CRF4\09292003\J658745.raw

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L:2228 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:21

L:2228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0

M:341 Repeated in SeqNo=21

L:2461 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:22

L:2461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0

M:341 Repeated in SeqNo=22